

UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.
97-149

Total Pages in this Submission

TO THE ASSISTANT COMMISSIONER FOR PATENTS

Box Patent Application
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

FIELD LOAD TESTER FOR ELECTRIC WATT HOUR METER

and invented by:

Dwight W. Stabler

If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Enclosed are:

Application Elements

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 9 pages and including the following:
 - a. ☒ Descriptive Title of the Invention
 - b. ☐ Cross References to Related Applications (if applicable)
 - c. ☐ Statement Regarding Federally-sponsored Research/Development (if applicable)
 - d. ☐ Reference to Microfiche Appendix (if applicable)
 - e. ☒ Background of the Invention
 - f. ☒ Brief Summary of the Invention
 - g. ☒ Brief Description of the Drawings (if drawings filed)
 - h. ☒ Detailed Description
 - i. ☒ Claim(s) as Classified Below
 - j. ☒ Abstract of the Disclosure

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(Small Entity)

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Application Elements (Continued)

3. ☒ Drawing(s) *(when necessary as prescribed by 35 USC 113)*
a. ☐ Formal b. ☒ Informal Number of Sheets 5
4. ☒ Oath or Declaration
a. ☒ Newly executed *(original or copy)* ☐ Unexecuted
b. ☐ Copy from a prior application (37 CFR 1.63(d)) *(for continuation/divisional application only)*
c. ☒ With Power of Attorney ☐ Without Power of Attorney
d. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application,
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference *(usable if Box 4b is checked)*
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied
under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby
incorporated by reference therein.
6. ☐ Computer Program in Microfiche
7. ☐ Genetic Sequence Submission *(if applicable, all must be included)*
a. ☐ Paper Copy
b. ☐ Computer Readable Copy
c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. ☐ Assignment Papers *(cover sheet & documents)*
9. ☐ 37 CFR 3.73(b) Statement *(when there is an assignee)*
10. ☐ English Translation Document *(if applicable)*
11. ☒ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☒ Certificate of Mailing
☐ First Class ☒ Express Mail *(Specify Label No.):* EI718954599US

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(Small Entity)

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Accompanying Application Parts (Continued)

15. ☐ Certified Copy of Priority Document(s) *(if foreign priority is claimed)*
16. ☒ Small Entity Statement(s) - Specify Number of Statements Submitted: 1
17. ☐ Additional Enclosures *(please identify below)*:

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Fee Calculation and Transmittal

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims		- 20 =	0	x \$11.00	\$0.00
Indep. Claims		- 3 =	0	x \$41.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$395.00
OTHER FEE (specify purpose) _____					\$0.00
TOTAL FILING FEE					\$395.00

- ☒ A check in the amount of \$395.00 to cover the filing fee is enclosed.
- ☐ The Commissioner is hereby authorized to charge and credit Deposit Account No. _____ as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of _____ as filing fee.
 - ☐ Credit any overpayment.
 - ☐ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
 - ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated: October 9, 1998


Signature

CC:

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY
STATUS (37 CFR 1.9(f) AND 1.27 (b)) - INDEPENDENT INVENTOR**

Docket No.
98-147

Serial No.

Unknown

Filing Date

October 9, 1998

Patent No.

Unknown

Issue Date

Unknown

Applicant/ **Dwight W. Stabler**

Patentee:

Invention: **FIELD LOAD TESTER FOR ELECTRIC WATT HOUR METER**

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled above and described in:

- ☒ the specification to be filed herewith.
☐ the application identified above.
☐ the patent identified above.

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

- ☒ No such person, concern or organization exists.
☐ Each such person, concern or organization is listed below.

***NOTE:** Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities (37 CFR 1.27)

FULL NAME

ADDRESS

☐

Individual

☐

Small Business Concern

☐

Nonprofit Organization

FULL NAME

ADDRESS

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Individual

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Small Business Concern

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Nonprofit Organization

FULL NAME

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Nonprofit Organization

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Individual

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Small Business Concern

☐

Nonprofit Organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF INVENTOR Dwight W. Stabler

SIGNATURE OF INVENTOR Dwight W. Stabler DATE: October 9, 1998

NAME OF INVENTOR _____

SIGNATURE OF INVENTOR _____ DATE: _____

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FIELD LOAD TESTER FOR ELECTRIC WATT HOUR METER

5 BACKGROUND OF THE INVENTION

The present invention relates to electric power meters and more particularly to a device for testing the flow of electricity through an electric watt hour meter.

10 Utility companies frequently have watt hour meters indicating no use or less than normal use each billing period. Field personnel are dispatched to check the meters that appear to be nonoperational. Usually, a nonoperational meter is disconnected, replaced with a temporary meter, and the nonoperational meter is taken to a laboratory for testing. This necessarily disrupts service to the customer and costs the utility company for the
15 man-hours of field and lab personnel as well as the expense of handling the accounting and billing for the customer during the disruption of service. It is known that of the meters disconnected and sent to a lab for testing, approximately 95 % are actually operational and only 5 % have actually stopped being functional. This knowledge indicates that considerable time and expense could be saved if apparently nonoperational
20 meters could be checked in the field rather than being disconnected and sent to a lab for testing.

Many attempts have been made to provide field testing means without the need of removing the meter from service. Several devices incorporate a detecting means or
25 mechanism within the meter. Unfortunately, these may be thwarted by unscrupulous consumers or may just fail, and because they are within the meter, may not be detected as the reason for no recorded consumption of power by the meter.

Another device for site testing a meter employs two clip-on transformers, one for
30 connection about an inlet power conduit from the electric utility and the other about an inlet power supply to the consumer. Electric current measuring means determines any difference in the current sensed by the two transformers. Unfortunately, this device requires the individual power conductors to be accessible and this generally is not the case; the conductors normally being enclosed within a cable containing the return
35 conductor. A transformer around such cable will detect zero current.

Other devices rely on magnetic flux to indicate the presence of an electric current within the meter. At least one such magnetic flux indicator (MFI) uses a mechanical
40 analog indicator which is orientation sensitive and difficult or impossible to use on a meter located above shoulder height.

There is accordingly a need for a portable, easily used device for field testing electric watt hour meters. Such a device should be simple to learn to use and implement
45 so that field personnel may quickly determine if an apparently nonoperational meter is actually operational.

SUMMARY OF THE INVENTION

Therefore, it is an object of the present invention to provide a portable, easily utilized device that can be carried by meter testing personnel or other field workers to detect loads passing through electric watt hour meters, particularly in single-phase and three-phase meters, up to 240 volts.

Another object is to provide a portable meter tester that assists in identifying nonfunctioning meters in the field, thus eliminating the need to disconnect and transport to a laboratory meters that are functioning properly, but for one reason or another do not indicate a load prior to testing by field personnel. The vast majority of meters appearing to be nonoperational and therefore removed and sent to a lab for repair are actually functioning properly, but at the time of observation are not under a load so the disc shows no movement. The present invention utilizes power from the service to create an artificial load that will turn the disc in the meter if it is functioning properly. Meters with open potential clips will not function properly and therefore may be identified and removed to a service lab for repair.

A further object of the present invention is to provide a convenient method for testing watt hour meters in the field. The method of use of the present invention is simple, safe, fast, convenient, and easy to accomplish in the field. It may be used on any voltage supplied by the utility company up to 240 volts AC.

In accordance with one aspect of the present invention there is provided a portable meter tester comprising in combination a case enclosing an electrical circuit capable of carrying up to 240 volts of electricity, this circuit is further comprised of at least a pair of connection leads, one of which is connected in series through a fuse, a thermostat, a circuit breaker, and an element with at least two terminals, with the first lead connected to one of the terminals and the other connection lead connected to the element at the other terminal, with a light connected between these element terminals. In use the meter tester is connected to the load side of the meter "and on any switch box, fuse box, disconnect, or where any device is attached to system on the load side of the meter" by closing a circuit with a clip attached to the neutral or ground line and another clip attached to one of the phase lines. A test may also be conducted on a phase to phase circuit similarly constructed.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention will be better understood after reading the following detailed description of the presently preferred embodiment thereof with reference to the appended drawings in which:

FIG. 1 is a perspective view of the present invention in the hands of a field worker testing a meter in a typical installation;

FIG. 2 is a perspective view of the present invention drawn to an enlarged scale and illustrating optional clip or probe connection means;

FIG. 3 is a plan view of the assembled device of the present invention with the cover removed to show the internal components;

FIG. 4 is a transverse sectional view of the cap end of the present invention with the cap opened to show the internal components;

FIG. 5 is an end view of the resistance component of the present invention;

Fig. 6 is a longitudinal sectional view of the present invention with the cap end shown exploded;

FIG. 7A is a diagrammatic illustration of a mode of testing a 120 volt single-phase meter, or a 240 volt single-phase meter;

FIG. 7B is a diagrammatic illustration of a second mode of testing a 240 volt single-phase meter;

FIG. 7C is a diagrammatic illustration of a first mode of testing a 208 volt single-phase meter;

FIG. 7D is a diagrammatic illustration of a third mode of testing a 240 volt single-phase meter;

FIG. 7E is a diagrammatic illustration of a first mode of testing a 120 volt three-phase meter;

FIG. 7F is a diagrammatic illustration of a second mode of testing a 120 volt three-phase meter;

FIG. 7G is a diagrammatic illustration of a third mode of testing a 120 volt three-phase meter;

FIG. 8A is a diagrammatic illustration of a first mode of testing a 208 or 240 volt three-phase meter;

FIG. 8B is a diagrammatic illustration of a second mode of testing a 208 or 240 volt three-phase meter; and

FIG. 8C is a diagrammatic illustration of a third mode of testing a 208 or 240 volt three-phase meter.

The same reference numerals are used throughout the drawings to designate the same or similar parts.

DETAILED DESCRIPTION OF THE PRESENTLY PREFERRED EMBODIMENT

Referring to the drawings, there is shown in FIG. 1 a typical electric meter

installation consisting of a service entrance conductor 10 which provides electric service to the building 12 after passing through a watt hour meter 14. The illustrated field worker is holding the tester device of the present invention in his right hand and preparing to connect the tester to the load with a clip held in his left hand having already grounded the tester to meter 14 with another clip at ground 18 (which could be the box of meter 14). This illustration is exemplary only as to the electric service, the meter, the worker, and the building since the invention concerns itself with the testing device and method of testing a watt hour meter.

Referring now to FIG. 2, an enlarged scale illustration of tester 16 more clearly shows the handle 20 mounted to the cover 22 which is attached to the case 24. Under handle 20 on cover 22 is a switch 26 which may be of the toggle type. At the lower portion of case 24, conduit 28 protrudes and reenters case 24 at bottom cap 30. From bottom cap 30 extend a first line 32 and a second line 34. First line 32 is attached to first clip 36 and second line 34 is attached to second clip 38. While the device has been depicted with clips, it should be apparent that one or more probes may be substituted for one or both clips. Shadowed in near second clip 38 in this illustration is an optional probe 40 which may replace either or both of clips 36 and 38, depending on the type meter to be tested by tester 16.

In FIG. 3, cover 22 has been laid open to reveal the continuation of conduit 28 housing first switch wire 42. Switch wire 42 is connected to switch 26 (not visible in this illustration as switch 26 is on the other side of cover 22) at a connector 46 by a compression clamp 48. At connector 46, a second compression clamp 50 connects switch 26 with a second wire 52 which also connects by a bladed connector 54 to a thermostat 56. To complete the circuit through thermostat 56, another bladed connector 58 connects thermostat 56 to a thermostat wire 44 which travels into conduit 28. Behind a flashing 60, which most preferably is made of aluminum, is an element 62 made of steel coils 64 held in place by porcelain insulators 66 on a support rod 68 continues the circuit. Element 62 may be a dry water heater element of the type commercially available today.

FIG. 4 depicts the various wires and connections in the lower portion of tester 16. The lowermost insulator 66 of element 62 is connected by a first compression connector 70, a second compression connector 72, a third compression connector 74, and a fourth compression connector 76 to a ground wire 78, a first light wire 80, a circuit wire 82, and a second light wire 84, respectively. These wires collectively pass through a flex connector 90 (illustrated in FIG. 3) to unite with switch 26, thermostat 56, and a light. First light wire 80 and second light wire 84 feed to a light (not depicted) in cover 22. The light will glow when the circuit is complete. Circuit wire 82 completes the circuit of switch 26, thermostat 56, element 62, first clip 36 and second clip 38, and meter to be tested. When first clip 36 and second clip 38 are clipped to the meter to be tested, switch 26 may be activated, allowing element 62 to create resistance which registers as a turning eddy current disc in an operational meter. The light in cover 22 glows as an indication of a complete circuit.

FIG. 5 illustrates the uppermost insulator 66 of element 62. Coils 64 loop back through insulator 66 at this location. Referring to FIG. 6, the looping of coils 64 is also depicted in another orientation. Support rod 68 holds several spaced insulators 66 which carry coils 64. Also depicted is an insulator 86, placed above element 62 to deflect heat given off during the testing of a meter. Insulator 86 may be made of any suitable heat-resistant material. At the other end of tester 16, a screw-on cap 92 carries a wire connector 88 which serves to carry first line 32 and second line 34. Above and inside cap 92 is located a lowermost insulator 94 (also depicted as insulator 66 in FIG. 4) with

terminal post 100 threaded to receive a washer 96 and a nut 98. Between washer 96 and nut 98 connection of wires 82 and 84 is made with compression connectors 74 and 76, respectively.

FIGS. 7A-8C are schematics for testing various types of single-phase and three-phase meters. In each illustration, the circle represents the face of a meter, the thin vertical rectangles represent the terminals of the meter, with the letter "N" above the neutral. The square below the circle represents the load, and the lines between the load and the terminals represent the first and second lines of the device of the present invention. In operation, the field personnel determines what type meter is to be tested and proceeds with the appropriate placement of the lines. The lines may be attached to the terminals by clips or held in contact with the terminals by probes. FIG. 7A illustrates placement of lines for a first mode of testing a 120 volt single-phase meter. It should be apparent that this mode of testing also applies to 240 volt single-phase meters as well. FIG. 7B illustrates placement of lines for a second mode of testing a 120 volt single-phase meter. Again, it should be apparent that this mode of testing may also apply to 240 volt single-phase meters. FIG. 7C illustrates placement of lines for a first mode of testing a 208 volt single-phase meter. FIG. 7D illustrates placement of lines for a third mode of testing a 240 volt single-phase meter. FIG. 7E illustrates placement of lines for a first mode of testing a 120 volt three-phase meter, by placing the first line to the first phase and the second line to the neutral. FIG. 7F illustrates placement of lines for a second mode of testing a 120 volt three-phase meter, by placing the first line to the second phase and the second line to the neutral. FIG. 7G illustrates placement of lines for a third mode of testing a 120 volt three-phase meter, by placing the first line to the third phase and the second line to the neutral. FIG. 8A illustrates a first mode of testing a 208 or 240 volt three-phase meter, by testing the first phase to the second phase. FIG. 8B illustrates a second mode of testing a 208 or 240 volt three-phase meter, by testing the second phase to the third phase. FIG. 8C illustrates a third mode of testing a 208 or 240 volt three-phase meter, by testing the first phase to the third phase. It should be apparent that these illustrations are but a sampling of testing methods for single and poly-phase meters.

Having described the device and method of using the invention with reference to the presently preferred embodiment thereof, it should be understood that various changes in construction can be adopted without departing from the spirit of the invention as defined in the appended claims.

I CLAIM:

1. An electric meter operation testing device, comprising:

a case enclosing an electrical circuit capable of carrying up to 240 volts of electricity;

said circuit comprising at least a pair of connection leads, the first lead of said pair connected in series through a circuit breaker and an element with at least two terminals, said first lead connected to one of said terminals;

the second of said pair of connection leads connected to said element at the other of said terminals; and

a light connected between said element terminal and said second connection lead.

2. An electric meter operation testing device according to claim 1, wherein said circuit further comprises a fuse between said first lead and said circuit breaker.

3. An electric meter operation testing device according to claim 2, wherein said fuse is capable of carrying 20 amps.

4. An electric meter operation testing device according to claim 1, wherein said circuit further comprises a thermostat between said first lead and said circuit breaker.

5. An electric meter operation testing device according to claim 4, when said thermostat is a 150° F thermostat with a cool-down reset of 20°F.

6. An electric meter operation testing device according to claim 1, wherein said circuit breaker is an off-on switch.

7. An electric meter operation testing device according to claim 1, wherein said light is a 1/3 watt, 250 volt red light.

8. An electric meter operation testing device according to claim 1, wherein said pair of connection leads end in clips.

9. An electric meter operation testing device according to claim 1, wherein said first of said pair of connection leads ends in a clip and said second of said pair of connection leads ends in a probe.

10. An electric meter operation testing device according to claim 1, wherein said element is a 240 volt 2000 watt element.

11. An electric meter operation testing device according to claim 1, wherein said element is a 240 volt 2000 watt dry water heater element.

12. A method for testing the operation of a single phase electric meter comprising the steps:

attaching one of a pair of connection leads from a device comprising an electrical circuit capable of carrying up to 240 volts of electricity to a neutral or ground on said meter;

attaching the other of said pair of connection leads from said device to a terminal of said meter;

activating said circuit;

generating a resistance;

noting the generation of said resistance;

noting the activation of said meter; then

disengaging said connection leads from said meter.

13. A method for testing the operation of a single phase electric meter according to claim 12, wherein said resistance generating means comprises an element with at least two terminals, one of said connection leads connected to one of said terminals, said element being at least a 240 volt 2000 watt element such that electric current from said meter meets resistance in said element and causes activation of a disc in said meter.

14. A method for testing the operation of a single phase electric meter according to claim 12, wherein said generation noting means comprises a light in series in said circuit between said second of said connection leads and said second terminal of said element, such that said light glows when resistance occurs in said circuit.

15. A method for testing the operation of a single phase electric meter according to claim 12, wherein said activation noting means is visible movement of an eddy current disc in said meter.

16. A method for testing the operation of a poly-phase electric meter comprising the steps:
attaching one of a pair of leads from a device comprising an electrical circuit capable of carrying up to 240 volts of electricity to a first phase terminal of said meter;
attaching the second of said pair of leads to a second phase terminal of said meter;
activating said circuit;
generating a resistance;
noting the generation of said resistance;
noting the activation of said meter;
disengaging said connection leads from said meter; then
repeating said method with attachments of said leads to said second phase terminal and a third phase terminal of said meter.

17. A method of testing the operation of a poly-phase electric meter according to claim 16, wherein said circuit comprises said first of said pair of connection leads connected in series through a fuse, a thermostat, a circuit breaker, and an element, while said second of said pair of connection leads is connected through a light to said element, the steps:
attaching said first lead to a first phase terminal of said meter;
attaching said second of said leads to a second phase terminal of said meter;
activating said circuit by closing said circuit breaker;
generating a resistance;
noting the generation of said resistance;
noting the activation of said light;
detaching said pair of connection leads from said meter; then
repeating said attaching sequence for each combination of the poly-phase terminals

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[illegible]

ABSTRACT

A field load tester for electric watt hour meters having a case enclosing an electrical circuit capable of carrying up to 240 volts of electricity, which circuit having at least a pair of connection leads, one of which is connected in series through a fuse, a thermostat, a circuit breaker, and an element with at least two terminals, one of the leads is connected to one of the terminals and the other lead is connected to the element at the other terminal, with a light connected between the element terminals. Connecting the tester to the ground and load of a meter by use of clips or probes at the ends of the connection leads creates a load on the line causing the eddy current disc of the meter to turn if the meter is operational.

FIG. 1.

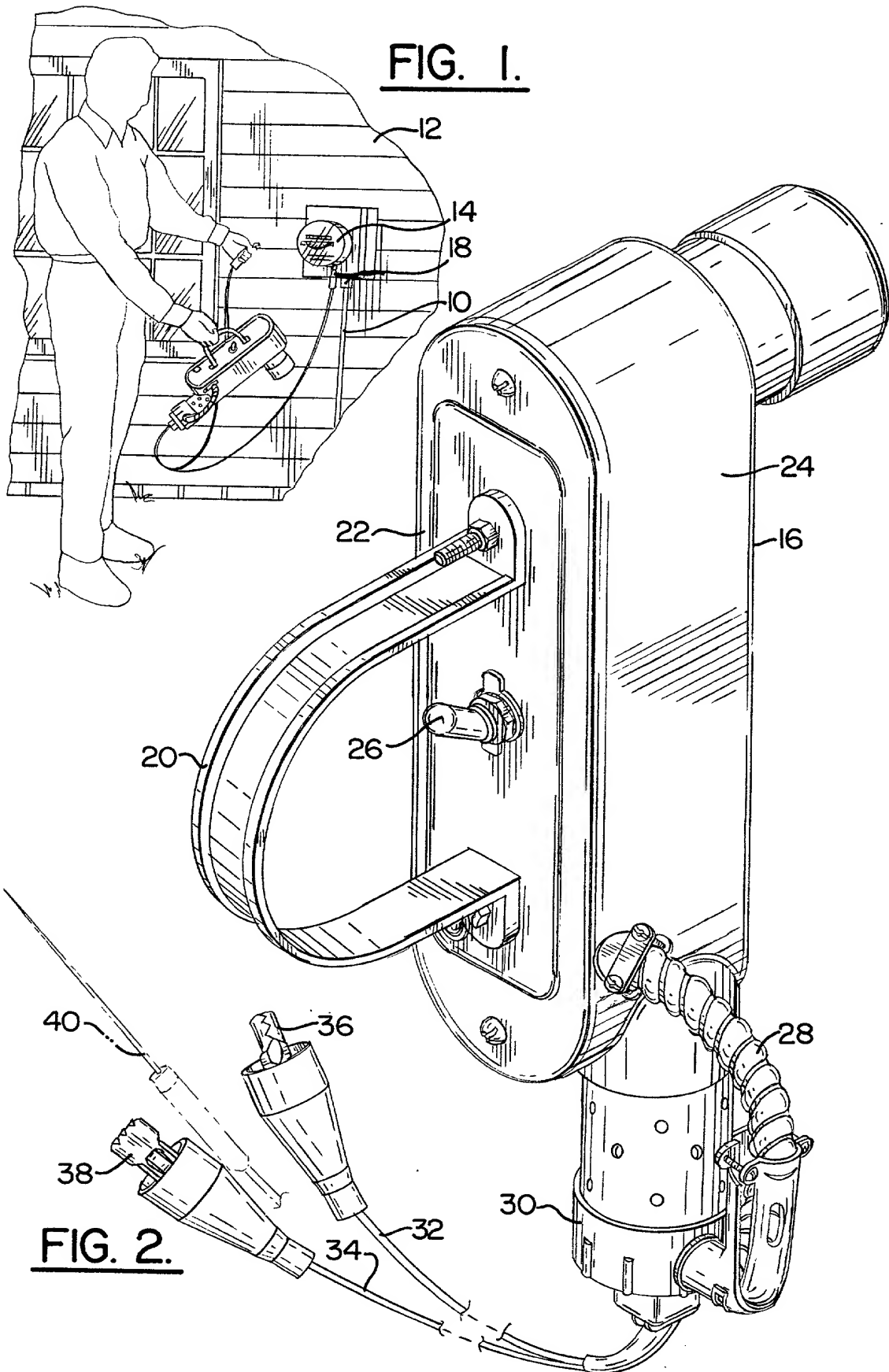


FIG. 2.

FIG. 3.

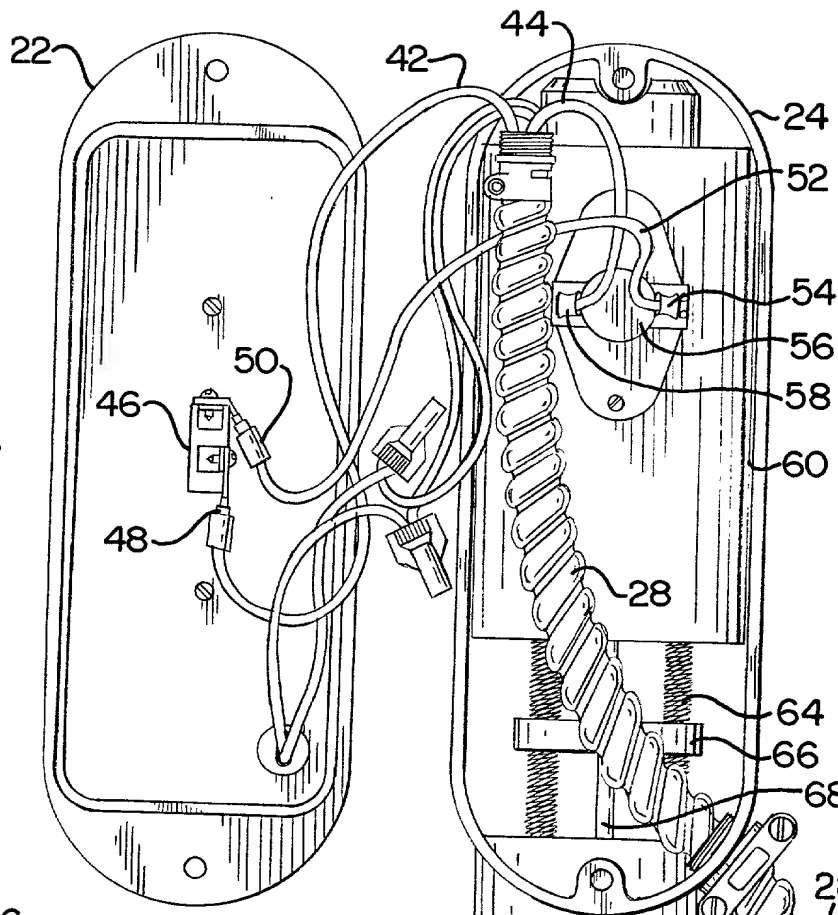


FIG. 4.

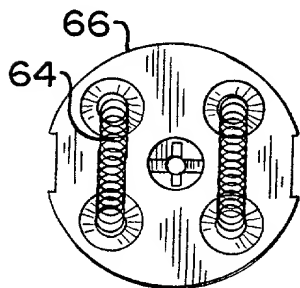
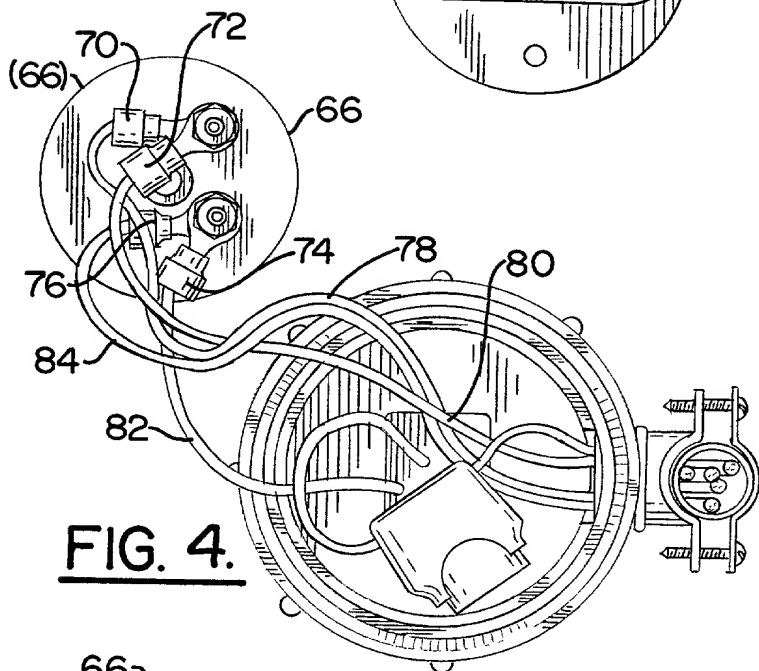
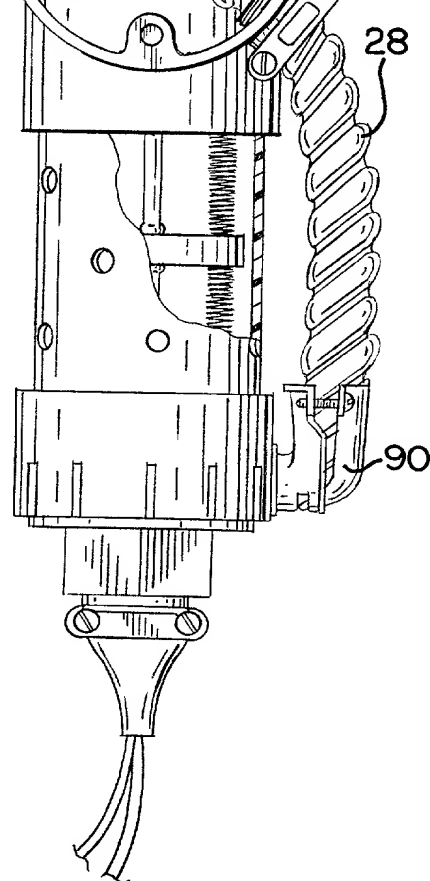


FIG. 5.



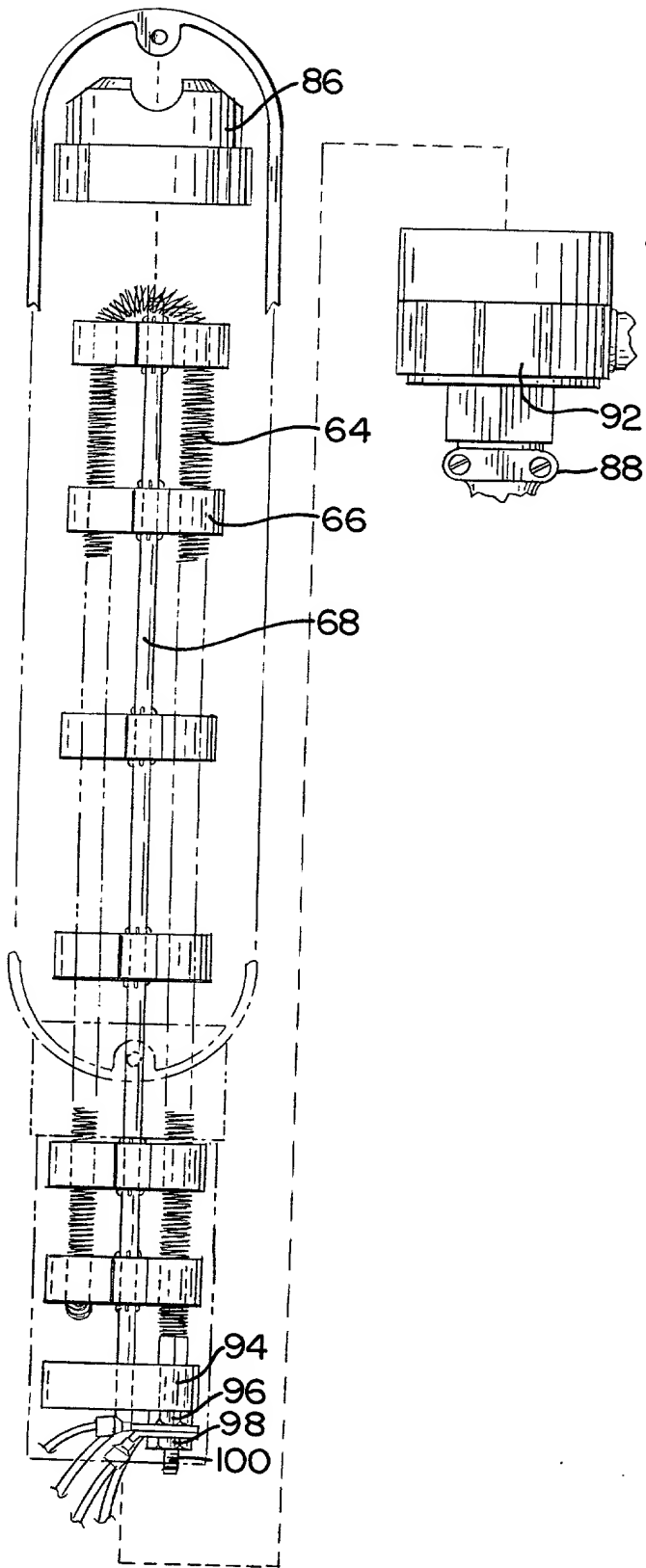
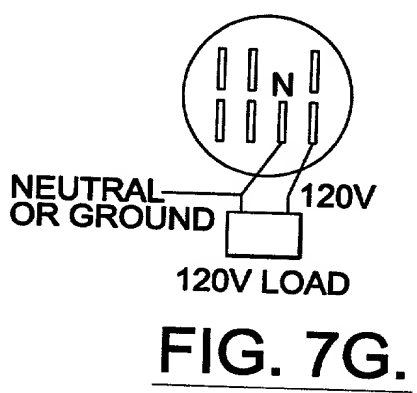
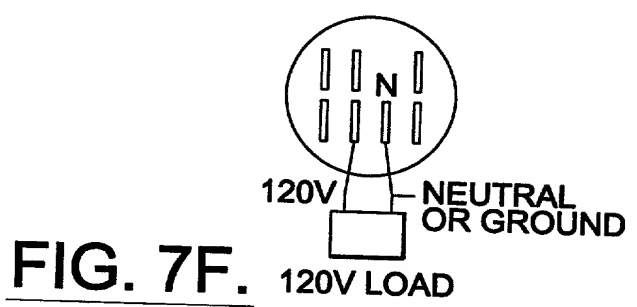
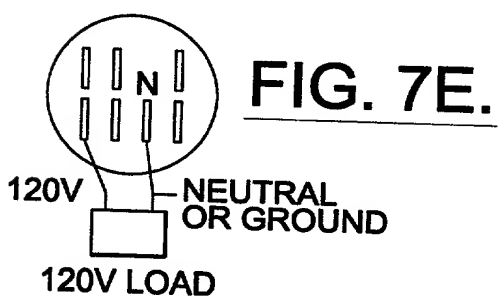
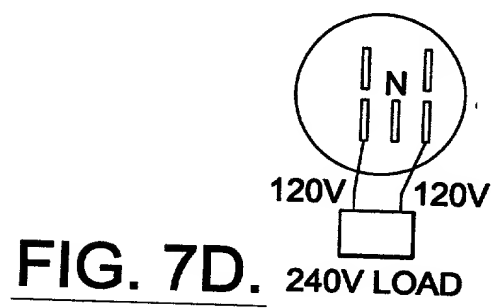
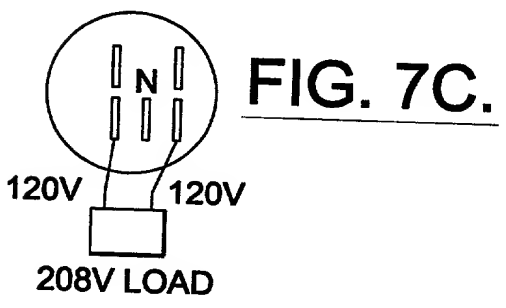
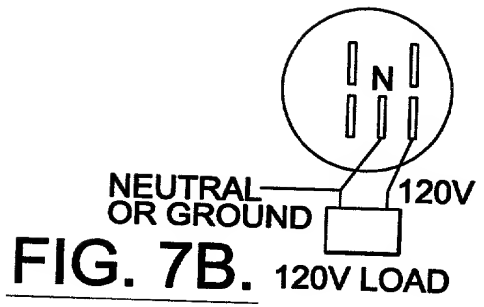
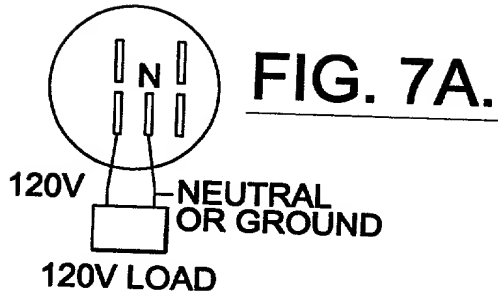


FIG. 6.



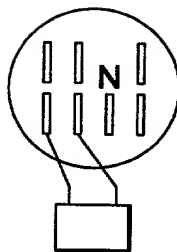


FIG. 8A.

208V OR 240V
LOAD

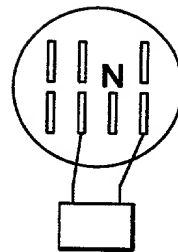
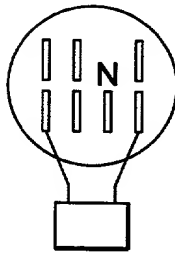


FIG. 8B.

208V OR 240V
LOAD



208V OR 240V
LOAD

FIG. 8C.

Docket No.

97-149

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

FIELD LOAD TESTER FOR ELECTRIC WATT HOUR METER

the specification of which

(check one)

☒ is attached hereto.

☐ was filed on _____ as United States Application No. or PCT International Application Number _____ and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

(Number)

(Country)

(Day/Month/Year Filed)

☐

(Number)

(Country)

(Day/Month/Year Filed)

☐

(Number)

(Country)

(Day/Month/Year Filed)

☐

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*

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